

P12389.sequence engl.txt
SEQUENCE LISTING

<110> Fiedler, Dr. Ulrike
Rudolph, Prof. Dr. Rainer

<120> Design of beta-sheet proteins with specific
binding properties

<130> P12389

<140>

<141>

<150> DE 199 32 688.6

<151> 1999-07-13

<160> 22

<170> PatentIn Ver. 2.1

<210> 1

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence: oligonucleotide

<400> 1

cgcgcgcgtc tcacaaagat acatgccatg actcgcggcc cagcc

45

<210> 2

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence: oligonucleotide

<400> 2

gccgcaggaa gtactggtga ccctggtagt tggggcgctc atacagcatc

50

<210> 3

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence: oligonucleotide

<400> 3

ccatcagccc catcagcgaa ctttgccgca ggaagtactg g

41

<210> 4

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

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Sequence: oligonucleotide

<400> 4
 gagtcattct gcggccgcat aaaaatccat cacccgtctt aaagaacc 48
 <210> 5
 <211> 59
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Description of Artificial
 Sequence: oligonucleotide
 <400> 5
 gcggcccagc cggccgctgc tggatgctgt atgagcgccc caactaccag ggtcaccag 59
 <210> 6
 <211> 55
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Description of Artificial
 Sequence: oligonucleotide
 <400> 6
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 <210> 7
 <211> 26
 <212> DNA
 <213> Artificial Sequence
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 <223> Description of Artificial
 Sequence: oligonucleotide
 <400> 7
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 <210> 8
 <211> 21
 <212> DNA
 <213> Artificial sequence
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 <223> Description of Artificial
 Sequence: oligonucleotide
 <400> 8
 ctgaaagtgc cggtgtgttg c 21
 <210> 9
 <211> 176
 <212> DNA
 <213> Bos sp.
 <400> 9
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 ttacagttgc aatagcgact gccccaacct gcagccctat ttcagccgct gtaactccat 120
 caggggtgctg agcggctgct ggatgctgta tgagcgcccc aactaccagg gtcacc 176

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<210> 10
 <211> 176
 <212> DNA
 <213> Bos sp.

<400> 10
 ggcccagccg gccatgggga agatcacttt ttacgaggac cggggcttcc agggccactg 60
 ctacgagtgc agcagcgact gcccacact gcagccctat ttcagccgct gtaactccat 120
 ccgctgggac agcggctgct ggaatgctga tgagcgcacc aactaccagg gccacc 176

<210> 11
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence: oligonucleotide

<400> 11
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<210> 12
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence: oligonucleotide

<400> 12
 ggccatgggg nnkacnnkt ttnnkgagga ccggggg 36

<210> 13
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence: oligonucleotide

<400> 13
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<210> 14
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
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 Sequence: oligonucleotide

<400> 14
 cttccagggc cacnnktacn nktgcnnkag cgactgcccc aacc 44

<210> 15
 <211> 20
 <212> DNA
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<223> Description of Artificial
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<400> 15

tgcagcccta tttcagccgc

20

<210> 16

<211> 47

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial
Sequence: oligonucleotide

<400> 16

gatggagtta cagcggctga aatagggctg caggttgggg cagtcgc

47

<210> 17

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence: oligonucleotide

<400> 17

tgtaactcca tcnnkgtggnn kagcggctgc tggatgctgt atgag

45

<210> 18

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence: oligonucleotide

<400> 18

cgccccaaact accaggggtca ccagtacttc ctgcggc

37

<210> 19

<211> 198

<212> PRT

<213> Bos sp.

<400> 19

Ala Ala Gln Pro Ala Met Gly Arg Ile Lys Phe Lys Glu Asp Arg Gly
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20 25 30Pro Tyr Phe Ser Arg Cys Asn Ser Ile Arg Val Leu Ser Gly Cys Trp
35 40 45Met Leu Tyr Glu Arg Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg
50 55 60Arg Gly Asp Tyr Pro Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser
65 70 75 80

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[illegible]

<210> 20
<211> 198
<212> PRT
<213> Bos sp.

<400>	20															
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Phe	Gln	Gly	His	Cys	Tyr	Glu	Cys	Ser	Ser	Asp	Cys	Pro	Asn	Leu	Gln	
			20					25					30			
Pro	Tyr	Phe	Ser	Arg	Cys	Asn	Ser	Ile	Arg	Val	Asp	Ser	Gly	Cys	Trp	
		35					40					45				
Met	Leu	Tyr	Glu	Arg	Pro	Asn	Tyr	Gln	Gly	His	Gln	Tyr	Phe	Leu	Arg	
	50					55					60					
Arg	Gly	Asp	Tyr	Pro	Asp	Tyr	Gln	Gln	Trp	Met	Gly	Phe	Asn	Asp	Ser	
65					70					75					80	
Ile	Arg	Ser	Cys	Arg	Leu	Ile	Pro	Gln	His	Thr	Gly	Thr	Phe	Arg	Met	
				85					90					95		
Arg	Ile	Tyr	Glu	Arg	Asp	Asp	Phe	Arg	Gly	Gln	Met	Ser	Glu	Ile	Thr	
			100					105					110			
Asp	Asp	Cys	Pro	Ser	Leu	Gln	Asp	Arg	Phe	His	Leu	Thr	Glu	Val	His	
		115					120					125				
Ser	Leu	Asn	Val	Leu	Glu	Gly	Ser	Trp	Val	Leu	Tyr	Glu	Met	Pro	Ser	
	130					135					140					
Tyr	Arg	Gly	Arg	Gln	Tyr	Leu	Leu	Arg	Pro	Gly	Glu	Tyr	Arg	Arg	Tyr	
145					150					155					160	
Leu	Asp	Trp	Gly	Ala	Met	Asn	Ala	Lys	Val	Gly	Ser	Leu	Arg	Arg	Val	

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165

170

175

Met Asp Phe Tyr Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro Asp Pro
 180 185 190

Leu Glu Pro Arg Ala Ala
 195

<210> 21
 <211> 197
 <212> PRT
 <213> Bos sp.

<400> 21
 Met Gly Arg Ile Lys Phe Lys Glu Asp Arg Gly Phe Gln Gly His Tyr
 1 5 10 15

Tyr Ser Cys Asn Ser Asp Cys Pro Asn Leu Gln Pro Tyr Phe Ser Arg
 20 25 30

Cys Asn Ser Ile Arg Val Leu Ser Gly Cys Trp Met Leu Tyr Glu Arg
 35 40 45

Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg Arg Gly Asp Tyr Pro
 50 55 60

Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser Ile Arg Ser Cys Arg
 65 70 75 80

Leu Ile Pro Gln His Thr Gly Thr Phe Arg Met Arg Ile Tyr Glu Arg
 85 90 95

Asp Asp Phe Arg Gly Gln Met Ser Glu Ile Thr Asp Asp Cys Pro Ser
 100 105 110

Leu Gln Asp Arg Phe His Leu Thr Glu Val His Ser Leu Asn Val Leu
 115 120 125

Glu Gly Ser Trp Val Leu Tyr Glu Met Pro Ser Tyr Arg Gly Arg Gln
 130 135 140

Tyr Leu Leu Arg Pro Gly Glu Tyr Arg Arg Tyr Leu Asp Trp Gly Ala
 145 150 155 160

Met Asn Ala Lys Val Gly Ser Leu Arg Arg Val Met Asp Phe Tyr Ser
 165 170 175

Asp Pro Asn Ser Ser Ser Val Asp Lys Leu Ala Ala Ala Leu Glu His
 180 185 190

His His His His His
 195

<210> 22
 <211> 197
 <212> PRT
 <213> Bos sp.

<400> 22
 Met Gly Lys Ile Thr Phe Tyr Glu Asp Arg Gly Phe Gln Gly His Cys
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Tyr	Glu	Cys	Ser	Ser	Asp	Cys	Pro	Asn	Leu	Gln	Pro	Tyr	Phe	Ser	Arg
			20					25					30		
Cys	Asn	Ser	Ile	Arg	Val	Asp	Ser	Gly	Cys	Trp	Met	Leu	Tyr	Glu	Arg
		35					40					45			
Pro	Asn	Tyr	Gln	Gly	His	Gln	Tyr	Phe	Leu	Arg	Arg	Gly	Asp	Tyr	Pro
		50				55					60				
Asp	Tyr	Gln	Gln	Trp	Met	Gly	Phe	Asn	Asp	Ser	Ile	Arg	Ser	Cys	Arg
65					70					75					80
Leu	Ile	Pro	Gln	His	Thr	Gly	Thr	Phe	Arg	Met	Arg	Ile	Tyr	Glu	Arg
				85					90					95	
Asp	Asp	Phe	Arg	Gly	Gln	Met	Ser	Glu	Ile	Thr	Asp	Asp	Cys	Pro	Ser
			100					105					110		
Leu	Gln	Asp	Arg	Phe	His	Leu	Thr	Glu	Val	His	Ser	Leu	Asn	Val	Leu
		115					120						125		
Glu	Gly	Ser	Trp	Val	Leu	Tyr	Glu	Met	Pro	Ser	Tyr	Arg	Gly	Arg	Gln
	130					135					140				
Tyr	Leu	Leu	Arg	Pro	Gly	Glu	Tyr	Arg	Arg	Tyr	Leu	Asp	Trp	Gly	Ala
145					150					155					160
Met	Asn	Ala	Lys	Val	Gly	Ser	Leu	Arg	Arg	Val	Met	Asp	Phe	Tyr	Ser
				165					170					175	
Asp	Pro	Asn	Ser	Ser	Ser	Val	Asp	Lys	Leu	Ala	Ala	Ala	Leu	Glu	His
			180					185						190	
His	His	His	His	His											
			195												

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